

http://www.wbdg.org

A 'Whole Buildings' Approach



It's not enough to simply optimize products and sub-systems, assuming that a better building will result.

A 'whole buildings' approach requires the

design team to work together & understand that many sub-systems and materials can perform 'double duty'.

In buildings, sustainability must be achieved in concert with these other design objectives:



- Safe
- Durable
- Cost-Effective
- Sustainable
- Productive
- Accessible
- Aesthetic

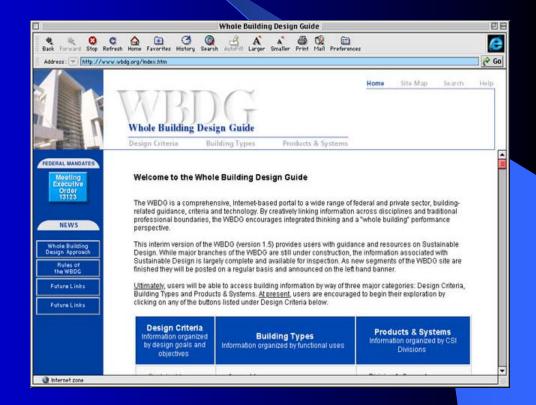
Move Towards Commercial Standards

The Federal Government is moving towards using commercial & industry standards and criteria for building design & construction to the greatest extent possible

e.g. DOD Unified Facilities Criteria (UFC) documents

WBDG History

In 1997, a small group (Navy, Air Force and the Corps, working with members of Sustainable Buildings Industry Council) developed the concept for what would become the Whole Building Design Guide.



Greening the Government: E.O. 13123

Requires DOD & GSA (the two LARGEST building owners) with DOE and EPA:

- Define sustainability principles
- Establish sustainable design guidelines



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DOE Secretary Richardson Recommends Whole Building Design Guide

As a part of the federal government's effort to design and construct facilities with greater energy efficiency, Secretary of Energy Bill Richardson has recommended to the heads of all federal agencies that they and their agency staffs use information on sustainable building design available on the Whole Building Design Guide (WBDG) web site. The web site is maintained by NIBS.

Secretary Richardson's announcement provides a major boost to the effort to provide all federal agencies and military services with information that will make government buildings sustainable. This is a primary objective of President Clinton's green buildings initiative.

On June 3, 1999, President Clinton signed into law Executive Order 13123 "Greening the Government Through Efficient Energy Management." It calls for federal agencies to improve the energy efficiency of their buildings, promote the use of renewable energy, and reduce greenhouse gas emissions associated with energy use in federal buildings, among other energyrelated requirements. It also requires federal agencies to develop a variety of guidance, criteria, tools, and other information for implementing the federal order.

One section of the Executive Order requires the Department of

WHOLE BLDG. continued on p. 5



Secretary Richardson

WBDG Goals

- ✓ Simplify access to criteria and standards information using a web-based approach;
- ✓ Replace outdated, redundant paper-based criteria documents;
- ✓ Guide managers and A&Es through a 'whole buildings' approach to building design;
- ✓ Provide a brief and highly informative resource which covered specific technical topics...

What is the WBDG Today?



Participating Agencies.

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WHOLF BUILDING DESIGN GUIDE

Internet Resource to Building-Related Design Guidance,

complex. At their best, they

Criteria & resource to a wide range of building-related design guidance,

Teleschinology

- ▶ Whole Building Design
- Building On A Strong

- Comprehensive yet succinct
- Up-to-date

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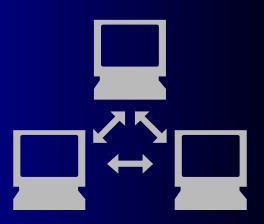
WBDG is:

- ✓ Comprehensive, yet succinct
- ✓ Knowledge-based
- ✓ Creatively linked to information across disciplines and traditional professional boundaries

- ✓ Intelligently linked to the NIBS Construction Criteria Base (CCB)
- ✓ Used by private sector, federal, and military architects, engineers, and project managers

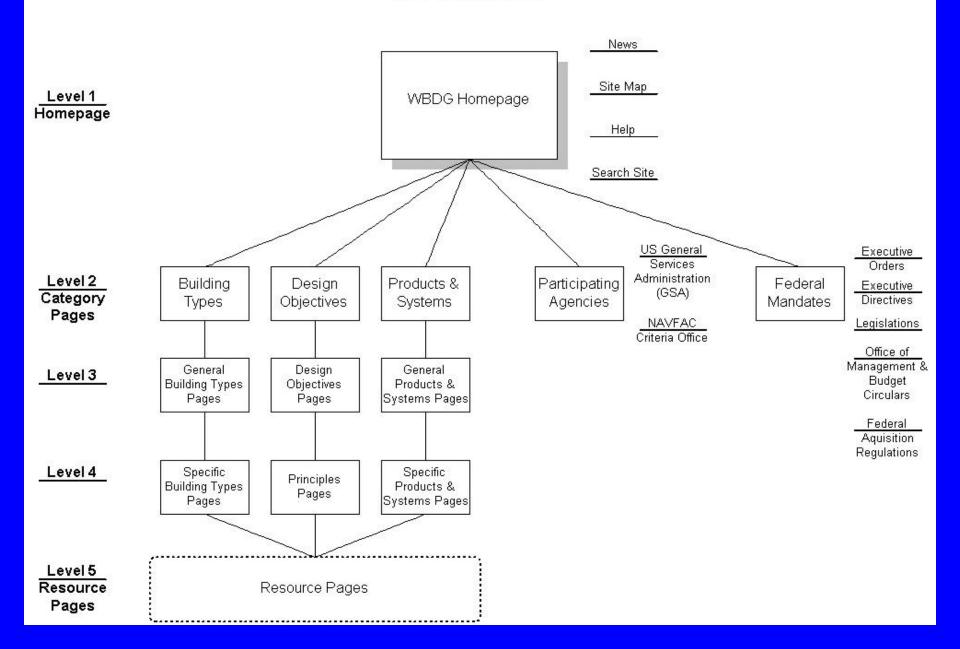
WBDG.org Web-based Format

- Can link the many interrelated issues of 'whole buildings' design
- Allows easy storage and access to updated standards
 & other resource & training materials



Whole Building Design Guide

http://www.wbdg.org





Optimized for Netscape 6.0 and MS Internet Explorer 5.0

Sponsors of WBDG.org

- National Institute of Building Sciences (NIBS)
- NAVFAC Criteria Office
- U.S. General Services Administration (GSA)
- Department of Energy (through NREL)
- Sustainable Buildings Industry Council (SBIC)
- WBDG Advisory Committee

Where We are Now

- ✓ Established flexible framework for WBDG
- ✓ Sustainable, Safe, Productive, Aesthetic, & Cost-Effective Design Objectives Branches
- Building Types pages on Child Care Facility, Office Building, Land Port of Entry, & Federal Courthouse
- ✓ 18 Resource Pages written by industry experts
- √ 8 active sub-committees

Where We Want to Go

- Flesh-out Design Objectives Branches
- Enhance Building Types pages
- Develop Products & Systems category
- Increase links to CCB documents and industry criteria, standards, & guidelines
- Expand "Participating Agencies..." section

How Can You Participate?

You Can...

- Use WBDG.org
- Make comments and suggestions
- Become a Resource Page author
- Submit case studies, links, graphics, and media files
- Develop your agency's button
- Join the Advisory Committee or subcommittees

Benefits of Participating

- ✓ Minimized investment in new criteria
- ✓ Reduced number of individual agency documents
- ✓ Less duplication of effort
- ✓ Quick access to information
- ✓ Guidance on the "whole buildings" approach to design & construction

Whole Building Design Guide http://www.WBDG.org



"Be sure to visit the site when you start your next project!"

Whole Building Design Guide http://www.WBDG.org

Contact Us! WBDG-info@nibs.org

